



## SEQUENCE LISTING

<110> Xu, Weixin  
Xu, Zhangbao  
Lin, Laura Long  
Olland, Stephane Hubert  
Mosyak, Lidia  
Somers, William Stuart

<120> CRYSTAL STRUCTURES OF KV CHANNEL  
PROTEINS AND USES THEREOF

<130> 16163-013001

<140> US 10/611,718

<141> 2003-07-01

<150> US 60/394,370

<151> 2002-07-08

<160> 3

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 223

<212> PRT

<213> Homo sapiens

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Arg	Pro	Ser	Lys	Asp	Lys	Ile	Glu	Asp	Asp	Leu	Glu	Met	Thr	Met	Val
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Cys	His	Arg	Pro	Glu	Gly	Leu	Glu	Gln	Leu	Glu	Ala	Gln	Thr	Asn	Phe
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Thr	Lys	Arg	Glu	Leu	Gln	Val	Leu	Tyr	Arg	Gly	Phe	Lys	Asn	Glu	Cys
			50			55					60				
Pro	Ser	Gly	Val	Val	Asn	Glu	Glu	Thr	Phe	Lys	Gln	Ile	Tyr	Ala	Gln
65					70				75					80	
Phe	Phe	Pro	His	Gly	Asp	Ala	Ser	Thr	Tyr	Ala	His	Tyr	Leu	Phe	Asn
			85					90					95		
Ala	Phe	Asp	Thr	Thr	Gln	Thr	Gly	Ser	Val	Lys	Phe	Glu	Asp	Phe	Val
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Thr	Ala	Leu	Ser	Ile	Leu	Leu	Arg	Gly	Thr	Val	His	Glu	Lys	Leu	Arg
			115				120					125			
Trp	Thr	Phe	Asn	Leu	Tyr	Asp	Ile	Asn	Lys	Asp	Gly	Tyr	Ile	Asn	Lys
			130			135					140				
Glu	Glu	Met	Met	Asp	Ile	Val	Lys	Ala	Ile	Tyr	Asp	Met	Met	Gly	Lys
145					150					155				160	
Tyr	Thr	Tyr	Pro	Val	Leu	Lys	Glu	Asp	Thr	Pro	Arg	Gln	His	Val	Asp
			165					170					175		
Phe	Phe	Gln	Lys	Met	Asp	Lys	Asn	Lys	Asp	Gly	Ile	Val	Thr	Leu	Asp
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Glu	Phe	Leu	Glu	Ser	Cys	Gln	Glu	Asp	Asp	Asn	Ile	Met	Arg	Ser	Leu
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 <211> 124  
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 Arg Tyr Pro Asp Thr Leu Leu Gly Ser Thr Glu Lys Glu Phe Phe Phe  
 35 40 45  
 Asn Glu Asp Thr Lys Glu Tyr Phe Phe Asp Arg Asp Pro Glu Val Phe  
 50 55 60  
 Arg Cys Val Leu Asn Phe Tyr Arg Thr Gly Lys Leu His Tyr Pro Arg  
 65 70 75 80  
 Tyr Glu Cys Ile Ser Ala Tyr Asp Asp Glu Leu Ala Phe Tyr Gly Ile  
 85 90 95  
 Leu Pro Glu Ile Ile Gly Asp Cys Cys Tyr Glu Glu Tyr Lys Asp Arg  
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 20 25